

Synaptojanin 1

Cat.No. 145 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 200 up to 1 : 2000 (AP staining) IP: not tested yet ICC: yes IHC: yes IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 1292 to 1308 from rat Synaptojanin1 (UniProt Id: Q62910-1)
Reactivity	Reacts with: rat (Q62910), mouse (Q8CHC4), hamster. Other species not tested yet.
Specificity	Recognizes all isoforms of synaptojanin 1.
matching control	145-OP
Remarks	Running SDS-PAGE with non-boiled samples gives stronger signals.

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Synaptojanin 1 is a phosphoinositide phosphatase which exists in two tissue specific isoforms (170 and 145 kDa). The 145 kDa isoform is predominantly expressed in the nervous system. It has a three domain structure with an N-terminal part homologous to the yeast Sac 1p protein, a central inositol 5-phosphatase domain and a C-terminal SH3 binding domain. Synaptojanin is involved in clathrin mediated synaptic vesicle recycling and binds to endophilin and amphiphysin. Six isoforms are described so far and two splice variants of the 145 kDa isoform. The predominant one contains a 16 AA insert at position 1140-1155.

Selected References SYSY Antibodies

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- Endosomal sorting of readily releasable synaptic vesicles.
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